

SEQUENCE LISTING

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LI, WEIWEI

<120> Nogo-Receptor Antagonists for the Treatment of Conditions Involving
Amyloid Plaques

<130> 2159.0470001

<140> US 10/553,669

<141> 2004-04-16

<150> PCT/US04/11728

<151> 2004-04-16

<150> US 60/463,424

<151> 2003-04-16

<160> 22

<170> PatentIn Ver. 3.2

<210> 1

<211> 344

<212> PRT

<213> Homo sapiens

<400> 1

Met Lys Arg Ala Ser Ala Gly Gly Ser Arg Leu Leu Ala Trp Val Leu
1 5 10 15

Trp Leu Gln Ala Trp Gln Val Ala Ala Pro Cys Pro Gly Ala Cys Val
20 25 30

Cys Tyr Asn Glu Pro Lys Val Thr Thr Ser Cys Pro Gln Gln Gly Leu
35 40 45

Gln Ala Val Pro Val Gly Ile Pro Ala Ala Ser Gln Arg Ile Phe Leu
50 55 60

His Gly Asn Arg Ile Ser His Val Pro Ala Ala Ser Phe Arg Ala Cys
65 70 75 80

Arg Asn Leu Thr Ile Leu Trp Leu His Ser Asn Val Leu Ala Arg Ile
85 90 95

Asp Ala Ala Ala Phe Thr Gly Leu Ala Leu Leu Glu Gln Leu Asp Leu
100 105 110

Ser Asp Asn Ala Gln Leu Arg Ser Val Asp Pro Ala Thr Phe His Gly
115 120 125

Leu Gly Arg Leu His Thr Leu His Leu Asp Arg Cys Gly Leu Gln Glu
130 135 140

Leu Gly Pro Gly Leu Phe Arg Gly Leu Ala Ala Leu Gln Tyr Leu Tyr
145 150 155 160

Leu Gln Asp Asn Ala Leu Gln Ala Leu Pro Asp Asp Thr Phe Arg Asp

165										170					175				
Leu	Gly	Asn	Leu	Thr	His	Leu	Phe	Leu	His	Gly	Asn	Arg	Ile	Ser	Ser				
			180					185					190						
Val	Pro	Glu	Arg	Ala	Phe	Arg	Gly	Leu	His	Ser	Leu	Asp	Arg	Leu	Leu				
		195					200					205							
Leu	His	Gln	Asn	Arg	Val	Ala	His	Val	His	Pro	His	Ala	Phe	Arg	Asp				
	210					215					220								
Leu	Gly	Arg	Leu	Met	Thr	Leu	Tyr	Leu	Phe	Ala	Asn	Asn	Leu	Ser	Ala				
225					230					235					240				
Leu	Pro	Thr	Glu	Ala	Leu	Ala	Pro	Leu	Arg	Ala	Leu	Gln	Tyr	Leu	Arg				
				245					250					255					
Leu	Asn	Asp	Asn	Pro	Trp	Val	Cys	Asp	Cys	Arg	Ala	Arg	Pro	Leu	Trp				
			260					265					270						
Ala	Trp	Leu	Gln	Lys	Phe	Arg	Gly	Ser	Ser	Ser	Glu	Val	Pro	Cys	Ser				
		275					280					285							
Leu	Pro	Gln	Arg	Leu	Ala	Gly	Arg	Asp	Leu	Lys	Arg	Leu	Ala	Ala	Asn				
	290					295					300								
Asp	Leu	Gln	Gly	Cys	Ala	Val	Ala	Thr	Gly	Pro	Tyr	His	Pro	Ile	Trp				
305					310					315					320				
Thr	Gly	Arg	Ala	Thr	Asp	Glu	Glu	Pro	Leu	Gly	Leu	Pro	Lys	Cys	Cys				
				325					330					335					
Gln	Pro	Asp	Ala	Ala	Asp	Lys	Ala												
				340															

<210> 2

<211> 344

<212> PRT

<213> Rattus norvegicus

<400> 2

Met	Lys	Arg	Ala	Ser	Ser	Gly	Gly	Ser	Arg	Leu	Pro	Thr	Trp	Val	Leu	
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Trp	Leu	Gln	Ala	Trp	Arg	Val	Ala	Thr	Pro	Cys	Pro	Gly	Ala	Cys	Val	
			20					25					30			
Cys	Tyr	Asn	Glu	Pro	Lys	Val	Thr	Thr	Ser	Arg	Pro	Gln	Gln	Gly	Leu	
		35					40					45				
Gln	Ala	Val	Pro	Ala	Gly	Ile	Pro	Ala	Ser	Ser	Gln	Arg	Ile	Phe	Leu	
	50					55					60					
His	Gly	Asn	Arg	Ile	Ser	Tyr	Val	Pro	Ala	Ala	Ser	Phe	Gln	Ser	Cys	
65					70					75					80	
Arg	Asn	Leu	Thr	Ile	Leu	Trp	Leu	His	Ser	Asn	Ala	Leu	Ala	Gly	Ile	
				85					90					95		
Asp	Ala	Ala	Ala	Phe	Thr	Gly	Leu	Thr	Leu	Leu	Glu	Gln	Leu	Asp	Leu	

100					105					110					
Ser	Asp	Asn	Ala	Gln	Leu	Arg	Val	Val	Asp	Pro	Thr	Thr	Phe	Arg	Gly
		115					120					125			
Leu	Gly	His	Leu	His	Thr	Leu	His	Leu	Asp	Arg	Cys	Gly	Leu	Gln	Glu
	130					135					140				
Leu	Gly	Pro	Gly	Leu	Phe	Arg	Gly	Leu	Ala	Ala	Leu	Gln	Tyr	Leu	Tyr
	145					150					155				160
Leu	Gln	Asp	Asn	Asn	Leu	Gln	Ala	Leu	Pro	Asp	Asn	Thr	Phe	Arg	Asp
			165						170					175	
Leu	Gly	Asn	Leu	Thr	His	Leu	Phe	Leu	His	Gly	Asn	Arg	Ile	Pro	Ser
		180						185					190		
Val	Pro	Glu	His	Ala	Phe	Arg	Gly	Leu	His	Ser	Leu	Asp	Arg	Leu	Leu
		195					200					205			
Leu	His	Gln	Asn	His	Val	Ala	Arg	Val	His	Pro	His	Ala	Phe	Arg	Asp
	210					215					220				
Leu	Gly	Arg	Leu	Met	Thr	Leu	Tyr	Leu	Phe	Ala	Asn	Asn	Leu	Ser	Met
	225					230					235				240
Leu	Pro	Ala	Glu	Val	Leu	Val	Pro	Leu	Arg	Ser	Leu	Gln	Tyr	Leu	Arg
			245						250					255	
Leu	Asn	Asp	Asn	Pro	Trp	Val	Cys	Asp	Cys	Arg	Ala	Arg	Pro	Leu	Trp
			260					265					270		
Ala	Trp	Leu	Gln	Lys	Phe	Arg	Gly	Ser	Ser	Ser	Gly	Val	Pro	Ser	Asn
		275					280					285			
Leu	Pro	Gln	Arg	Leu	Ala	Gly	Arg	Asp	Leu	Lys	Arg	Leu	Ala	Thr	Ser
	290					295					300				
Asp	Leu	Glu	Gly	Cys	Ala	Val	Ala	Ser	Gly	Pro	Phe	Arg	Pro	Phe	Gln
	305					310					315				320
Thr	Asn	Gln	Leu	Thr	Asp	Glu	Glu	Leu	Leu	Gly	Leu	Pro	Lys	Cys	Cys
			325					330						335	
Gln	Pro	Asp	Ala	Ala	Asp	Lys	Ala								
			340												

<210> 3

<211> 285

<212> PRT

<213> Homo sapiens

<400> 3

Pro	Cys	Pro	Gly	Ala	Cys	Val	Cys	Tyr	Asn	Glu	Pro	Lys	Val	Thr	Thr
1				5					10					15	

Ser	Cys	Pro	Gln	Gln	Gly	Leu	Gln	Ala	Val	Pro	Val	Gly	Ile	Pro	Ala
			20					25					30		

Ala Ser Gln Arg Ile Phe Leu His Gly Asn Arg Ile Ser His Val Pro

35	40	45
Ala Ala Ser Phe Arg Ala Cys Arg Asn Leu Thr Ile Leu Trp Leu His		
50	55	60
Ser Asn Val Leu Ala Arg Ile Asp Ala Ala Ala Phe Thr Gly Leu Ala		
65	70	75
Leu Leu Glu Gln Leu Asp Leu Ser Asp Asn Ala Gln Leu Arg Ser Val		
	85	90
Asp Pro Ala Thr Phe His Gly Leu Gly Arg Leu His Thr Leu His Leu		
	100	105
Asp Arg Cys Gly Leu Gln Glu Leu Gly Pro Gly Leu Phe Arg Gly Leu		
	115	120
Ala Ala Leu Gln Tyr Leu Tyr Leu Gln Asp Asn Ala Leu Gln Ala Leu		
	130	135
Pro Asp Asp Thr Phe Arg Asp Leu Gly Asn Leu Thr His Leu Phe Leu		
	145	150
His Gly Asn Arg Ile Ser Ser Val Pro Glu Arg Ala Phe Arg Gly Leu		
	165	170
His Ser Leu Asp Arg Leu Leu Leu His Gln Asn Arg Val Ala His Val		
	180	185
His Pro His Ala Phe Arg Asp Leu Gly Arg Leu Met Thr Leu Tyr Leu		
	195	200
Phe Ala Asn Asn Leu Ser Ala Leu Pro Thr Glu Ala Leu Ala Pro Leu		
	210	215
Arg Ala Leu Gln Tyr Leu Arg Leu Asn Asp Asn Pro Trp Val Cys Asp		
	225	230
Cys Arg Ala Arg Pro Leu Trp Ala Trp Leu Gln Lys Phe Arg Gly Ser		
	245	250
Ser Ser Glu Val Pro Cys Ser Leu Pro Gln Arg Leu Ala Gly Arg Asp		
	260	265
Leu Lys Arg Leu Ala Ala Asn Asp Leu Gln Gly Cys Ala		
	275	280

<210> 4

<211> 319

<212> PRT

<213> Homo sapiens

<400> 4

Pro Cys Pro Gly Ala Cys Val Cys Tyr Asn Glu Pro Lys Val Thr Thr
1 5 10 15

Ser Cys Pro Gln Gln Gly Leu Gln Ala Val Pro Val Gly Ile Pro Ala
20 25 30

Ala Ser Gln Arg Ile Phe Leu His Gly Asn Arg Ile Ser His Val Pro

35					40					45					
Ala	Ala	Ser	Phe	Arg	Ala	Cys	Arg	Asn	Leu	Thr	Ile	Leu	Trp	Leu	His
50					55					60					
Ser	Asn	Val	Leu	Ala	Arg	Ile	Asp	Ala	Ala	Ala	Phe	Thr	Gly	Leu	Ala
65					70					75					80
Leu	Leu	Glu	Gln	Leu	Asp	Leu	Ser	Asp	Asn	Ala	Gln	Leu	Arg	Ser	Val
				85					90					95	
Asp	Pro	Ala	Thr	Phe	His	Gly	Leu	Gly	Arg	Leu	His	Thr	Leu	His	Leu
			100					105					110		
Asp	Arg	Cys	Gly	Leu	Gln	Glu	Leu	Gly	Pro	Gly	Leu	Phe	Arg	Gly	Leu
		115					120					125			
Ala	Ala	Leu	Gln	Tyr	Leu	Tyr	Leu	Gln	Asp	Asn	Ala	Leu	Gln	Ala	Leu
		130				135					140				
Pro	Asp	Asp	Thr	Phe	Arg	Asp	Leu	Gly	Asn	Leu	Thr	His	Leu	Phe	Leu
145					150					155					160
His	Gly	Asn	Arg	Ile	Ser	Ser	Val	Pro	Glu	Arg	Ala	Phe	Arg	Gly	Leu
				165					170					175	
His	Ser	Leu	Asp	Arg	Leu	Leu	Leu	His	Gln	Asn	Arg	Val	Ala	His	Val
			180					185					190		
His	Pro	His	Ala	Phe	Arg	Asp	Leu	Gly	Arg	Leu	Met	Thr	Leu	Tyr	Leu
		195					200					205			
Phe	Ala	Asn	Asn	Leu	Ser	Ala	Leu	Pro	Thr	Glu	Ala	Leu	Ala	Pro	Leu
		210				215					220				
Arg	Ala	Leu	Gln	Tyr	Leu	Arg	Leu	Asn	Asp	Asn	Pro	Trp	Val	Cys	Asp
225					230					235				240	
Cys	Arg	Ala	Arg	Pro	Leu	Trp	Ala	Trp	Leu	Gln	Lys	Phe	Arg	Gly	Ser
				245					250					255	
Ser	Ser	Glu	Val	Pro	Cys	Ser	Leu	Pro	Gln	Arg	Leu	Ala	Gly	Arg	Asp
			260					265					270		
Leu	Lys	Arg	Leu	Ala	Ala	Asn	Asp	Leu	Gln	Gly	Cys	Ala	Val	Ala	Thr
		275				280						285			
Gly	Pro	Tyr	His	Pro	Ile	Trp	Thr	Gly	Arg	Ala	Thr	Asp	Glu	Glu	Pro
		290				295					300				
Leu	Gly	Leu	Pro	Lys	Cys	Cys	Gln	Pro	Asp	Ala	Ala	Asp	Lys	Ala	
305					310					315					

<210> 5

<211> 284

<212> PRT

<213> Rattus norvegicus

<400> 5

Cys Pro Gly Ala Cys Val Cys Tyr Asn Glu Pro Lys Val Thr Thr Ser

1	5	10	15
Arg Pro Gln Gln Gly Leu Gln Ala Val Pro Ala Gly Ile Pro Ala Ser	20	25	30
Ser Gln Arg Ile Phe Leu His Gly Asn Arg Ile Ser Tyr Val Pro Ala	35	40	45
Ala Ser Phe Gln Ser Cys Arg Asn Leu Thr Ile Leu Trp Leu His Ser	50	55	60
Asn Ala Leu Ala Gly Ile Asp Ala Ala Ala Phe Thr Gly Leu Thr Leu	65	70	75
Leu Glu Gln Leu Asp Leu Ser Asp Asn Ala Gln Leu Arg Val Val Asp	85	90	95
Pro Thr Thr Phe Arg Gly Leu Gly His Leu His Thr Leu His Leu Asp	100	105	110
Arg Cys Gly Leu Gln Glu Leu Gly Pro Gly Leu Phe Arg Gly Leu Ala	115	120	125
Ala Leu Gln Tyr Leu Tyr Leu Gln Asp Asn Asn Leu Gln Ala Leu Pro	130	135	140
Asp Asn Thr Phe Arg Asp Leu Gly Asn Leu Thr His Leu Phe Leu His	145	150	155
Gly Asn Arg Ile Pro Ser Val Pro Glu His Ala Phe Arg Gly Leu His	165	170	175
Ser Leu Asp Arg Leu Leu Leu His Gln Asn His Val Ala Arg Val His	180	185	190
Pro His Ala Phe Arg Asp Leu Gly Arg Leu Met Thr Leu Tyr Leu Phe	195	200	205
Ala Asn Asn Leu Ser Met Leu Pro Ala Glu Val Leu Val Pro Leu Arg	210	215	220
Ser Leu Gln Tyr Leu Arg Leu Asn Asp Asn Pro Trp Val Cys Asp Cys	225	230	235
Arg Ala Arg Pro Leu Trp Ala Trp Leu Gln Lys Phe Arg Gly Ser Ser	245	250	255
Ser Gly Val Pro Ser Asn Leu Pro Gln Arg Leu Ala Gly Arg Asp Leu	260	265	270
Lys Arg Leu Ala Thr Ser Asp Leu Glu Gly Cys Ala	275	280	

<210> 6

<211> 318

<212> PRT

<213> Rattus norvegicus

<400> 6

Cys Pro Gly Ala Cys Val Cys Tyr Asn Glu Pro Lys Val Thr Thr Ser

1	5	10	15
Arg Pro Gln Gln Gly Leu Gln Ala Val Pro Ala Gly Ile Pro Ala Ser	20	25	30
Ser Gln Arg Ile Phe Leu His Gly Asn Arg Ile Ser Tyr Val Pro Ala	35	40	45
Ala Ser Phe Gln Ser Cys Arg Asn Leu Thr Ile Leu Trp Leu His Ser	50	55	60
Asn Ala Leu Ala Gly Ile Asp Ala Ala Ala Phe Thr Gly Leu Thr Leu	65	70	75
Leu Glu Gln Leu Asp Leu Ser Asp Asn Ala Gln Leu Arg Val Val Asp	85	90	95
Pro Thr Thr Phe Arg Gly Leu Gly His Leu His Thr Leu His Leu Asp	100	105	110
Arg Cys Gly Leu Gln Glu Leu Gly Pro Gly Leu Phe Arg Gly Leu Ala	115	120	125
Ala Leu Gln Tyr Leu Tyr Leu Gln Asp Asn Asn Leu Gln Ala Leu Pro	130	135	140
Asp Asn Thr Phe Arg Asp Leu Gly Asn Leu Thr His Leu Phe Leu His	145	150	155
Gly Asn Arg Ile Pro Ser Val Pro Glu His Ala Phe Arg Gly Leu His	165	170	175
Ser Leu Asp Arg Leu Leu Leu His Gln Asn His Val Ala Arg Val His	180	185	190
Pro His Ala Phe Arg Asp Leu Gly Arg Leu Met Thr Leu Tyr Leu Phe	195	200	205
Ala Asn Asn Leu Ser Met Leu Pro Ala Glu Val Leu Val Pro Leu Arg	210	215	220
Ser Leu Gln Tyr Leu Arg Leu Asn Asp Asn Pro Trp Val Cys Asp Cys	225	230	235
Arg Ala Arg Pro Leu Trp Ala Trp Leu Gln Lys Phe Arg Gly Ser Ser	245	250	255
Ser Gly Val Pro Ser Asn Leu Pro Gln Arg Leu Ala Gly Arg Asp Leu	260	265	270
Lys Arg Leu Ala Thr Ser Asp Leu Glu Gly Cys Ala Val Ala Ser Gly	275	280	285
Pro Phe Arg Pro Phe Gln Thr Asn Gln Leu Thr Asp Glu Glu Leu Leu	290	295	300
Gly Leu Pro Lys Cys Cys Gln Pro Asp Ala Ala Asp Lys Ala	305	310	315

<211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 7
 Ala Ala Ala Phe Thr Gly Leu Thr Leu Leu Glu Gln Leu Asp Leu Ser Asp
 1 5 10 15

Asn Ala Gln Leu Arg
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<210> 8
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 8
 Leu Asp Leu Ser Asp Asn Ala Gln Leu Arg
 1 5 10

<210> 9
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 9
 Leu Asp Leu Ser Asp Asp Ala Glu Leu Arg
 1 5 10

<210> 10
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 10
 Leu Asp Leu Ala Ser Asp Asn Ala Gln Leu Arg
 1 5 10

<210> 11
 <211> 11
 <212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 11

Leu Asp Leu Ala Ser Asp Asp Ala Glu Leu Arg
1 5 10

<210> 12

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 12

Leu Asp Ala Leu Ser Asp Asn Ala Gln Leu Arg
1 5 10

<210> 13

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 13

Leu Asp Ala Leu Ser Asp Asp Ala Glu Leu Arg
1 5 10

<210> 14

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 14

Leu Asp Leu Ser Ser Asp Asn Ala Gln Leu Arg
1 5 10

<210> 15

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 15

Leu Asp Leu Ser Ser Asp Glu Ala Glu Leu Arg
1 5 10

<210> 16

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 16

Asp Asn Ala Gln Leu Arg Val Val Asp Pro Thr Thr
1 5 10

<210> 17

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 17

Asp Asn Ala Gln Leu Arg
1 5

<210> 18

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 18

Ala Asp Leu Ser Asp Asn Ala Gln Leu Arg Val Val Asp Pro Thr Thr
1 5 10 15

<210> 19

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 19

Leu Ala Leu Ser Asp Asn Ala Gln Leu Arg Val Val Asp Pro Thr Thr
1 5 10 15

<210> 20
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 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 20
 Leu Asp Leu Ser Asp Asn Ala Ala Leu Arg Val Val Asp Pro Thr Thr
 1 5 10 15

<210> 21
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 21
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 1 5 10 15

<210> 22
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 22
 Leu Asp Leu Ser Asp Asn Ala Gln Leu Ala Val Val Asp Pro Thr Thr
 1 5 10 15